

Study Number: C08004-03

Test Type: TOX

Route: Dosing in Water

Species/Strain: Rat/Harlan Sprague Dawley

R19G: Pup Mean Body Weight Gain

Test Compound: Vanadyl sulfate

CAS Number: 27774-13-6

Date Report Requested: 08/02/2021

Time Report Requested: 07:24:40

Lab: Battelle

Study Number:

C08004-03

Study Gender:

Both

PWG Approval Date:

See web page for date of PWG Approval

Version:

v1.2.8

Stat Version:

S

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F1 Males

Phase	Days	Treatment Groups (mg/L)							
		0		21		41.9		83.8	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	4 - 7	5.82 ± 0.25	58 (15)	6.42 ± 0.15	63 (16)	6.52 ± 0.18	60 (15)	6.58 ± 0.28 *	59 (15)
	7 - 10	7.56 ± 0.17	58 (15)	7.42 ± 0.15	63 (16)	7.56 ± 0.18	60 (15)	7.23 ± 0.35	59 (15)
	10 - 13	8.17 ± 0.18 *	58 (15)	7.76 ± 0.16	63 (16)	7.88 ± 0.15	60 (15)	7.92 ± 0.25	59 (15)
	13 - 16	7.38 ± 0.24 *	58 (15)	6.97 ± 0.19	63 (16)	6.68 ± 0.21	60 (15)	6.81 ± 0.26	59 (15)
	16 - 19	9.68 ± 0.43 *	57 (15)	10.50 ± 0.37	63 (16)	10.93 ± 0.54	60 (15)	10.11 ± 0.47	59 (15)
	19 - 21	8.92 ± 0.18 *	57 (15)	9.44 ± 0.20	63 (16)	9.36 ± 0.22	60 (15)	8.54 ± 0.24	55 (14)
	21 - 25	17.19 ± 0.47	57 (15)	18.20 ± 0.60	63 (16)	17.95 ± 0.53	60 (15)	18.36 ± 0.41	55 (14)
	25 - 28	17.62 ± 0.66 **	57 (15)	17.29 ± 0.42	63 (16)	18.03 ± 0.69	60 (15)	17.42 ± 0.61	55 (14)
	4 - 28	82.33 ± 1.33 **	57 (15)	83.99 ± 1.23	63 (16)	84.91 ± 1.36	60 (15)	83.88 ± 1.11	55 (14)

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F1 Males

Phase	Days	Treatment Groups (mg/L)			
		168		335	
		WT Gain (g)	N	WT Gain (g)	N
PND	4 - 7	6.02 ± 0.16	58 (15)	5.99 ± 0.11	60 (15)
	7 - 10	7.60 ± 0.18	58 (15)	7.31 ± 0.23	60 (15)
	10 - 13	7.95 ± 0.17	58 (15)	7.49 ± 0.16	60 (15)
	13 - 16	6.61 ± 0.20	58 (15)	6.41 ± 0.24 *	60 (15)
	16 - 19	9.56 ± 0.46	58 (15)	9.21 ± 0.37	60 (15)
	19 - 21	8.52 ± 0.17	58 (15)	8.70 ± 0.23	60 (15)
	21 - 25	17.51 ± 0.50	58 (15)	18.14 ± 0.32	60 (15)
	25 - 28	15.44 ± 0.63 *	58 (15)	14.99 ± 0.48 **	60 (15)
	4 - 28	79.24 ± 1.28	58 (15)	78.26 ± 1.06	60 (15)

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F1 Females

Treatment Groups (mg/L)

Phase	Days	0		21		41.9		83.8	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	4 - 7	5.31 ± 0.21	60 (15)	6.08 ± 0.16 *	64 (16)	6.22 ± 0.25 **	60 (15)	6.55 ± 0.25 **	60 (15)
	7 - 10	7.03 ± 0.23	59 (15)	7.21 ± 0.20	64 (16)	7.28 ± 0.20	60 (15)	7.07 ± 0.33	60 (15)
	10 - 13	7.94 ± 0.25	58 (15)	7.71 ± 0.20	64 (16)	7.67 ± 0.22	60 (15)	7.82 ± 0.30	60 (15)
	13 - 16	7.13 ± 0.21 **	58 (15)	6.58 ± 0.17	64 (16)	6.52 ± 0.19	60 (15)	6.60 ± 0.24	60 (15)
	16 - 19	8.99 ± 0.31 *	58 (15)	10.08 ± 0.40	64 (16)	9.72 ± 0.37	60 (15)	9.69 ± 0.29	60 (15)
	19 - 21	7.87 ± 0.19 *	58 (15)	8.15 ± 0.22	64 (16)	8.56 ± 0.16	60 (15)	7.80 ± 0.22	56 (14)
	21 - 25	14.72 ± 0.45	58 (15)	15.52 ± 0.48	64 (16)	15.69 ± 0.56	60 (15)	16.02 ± 0.45	56 (14)
	25 - 28	14.82 ± 0.67 **	58 (15)	13.93 ± 0.40	64 (16)	14.46 ± 0.76	60 (15)	13.92 ± 0.58	56 (14)
	4 - 28	73.80 ± 1.35 **	58 (15)	75.25 ± 1.31	64 (16)	76.11 ± 1.24	60 (15)	76.23 ± 0.61	56 (14)

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F1 Females

Phase	Days	Treatment Groups (mg/L)			
		168		335	
		WT Gain (g)	N	WT Gain (g)	N
PND	4 - 7	5.69 ± 0.17	59 (15)	5.68 ± 0.17	58 (15)
	7 - 10	7.33 ± 0.14	59 (15)	6.95 ± 0.24	58 (15)
	10 - 13	7.88 ± 0.19	59 (15)	7.28 ± 0.12	58 (15)
	13 - 16	6.51 ± 0.22	59 (15)	6.09 ± 0.20 **	58 (15)
	16 - 19	8.82 ± 0.46	59 (15)	8.73 ± 0.41	58 (15)
	19 - 21	7.74 ± 0.15	59 (15)	7.59 ± 0.25	58 (15)
	21 - 25	15.17 ± 0.42	59 (15)	15.86 ± 0.29	58 (15)
	25 - 28	13.27 ± 0.41	59 (15)	12.05 ± 0.36 **	58 (15)
	4 - 28	72.41 ± 0.98	59 (15)	70.25 ± 0.87	58 (15)

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F1 ALL

Phase	Days	Treatment Groups (mg/L)							
		0		21		41.9		83.8	
		WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N	WT Gain (g)	N
PND	4 - 7	5.56 ± 0.22	118 (15)	6.25 ± 0.15 *	127 (16)	6.37 ± 0.21 *	120 (15)	6.58 ± 0.26 **	119 (15)
	7 - 10	7.30 ± 0.19	117 (15)	7.31 ± 0.16	127 (16)	7.42 ± 0.18	120 (15)	7.16 ± 0.34	119 (15)
	10 - 13	8.05 ± 0.20	116 (15)	7.74 ± 0.17	127 (16)	7.78 ± 0.17	120 (15)	7.87 ± 0.27	119 (15)
	13 - 16	7.25 ± 0.21 **	116 (15)	6.77 ± 0.16	127 (16)	6.60 ± 0.20	120 (15)	6.70 ± 0.24	119 (15)
	16 - 19	9.32 ± 0.36 *	115 (15)	10.29 ± 0.35	127 (16)	10.33 ± 0.44	120 (15)	9.92 ± 0.36	119 (15)
	19 - 21	8.40 ± 0.18 **	115 (15)	8.79 ± 0.14	127 (16)	8.96 ± 0.14	120 (15)	8.20 ± 0.22	111 (14)
	21 - 25	15.96 ± 0.43	115 (15)	16.87 ± 0.51	127 (16)	16.81 ± 0.52	120 (15)	17.21 ± 0.40	111 (14)
	25 - 28	16.23 ± 0.66 **	115 (15)	15.60 ± 0.39	127 (16)	16.25 ± 0.74	120 (15)	15.70 ± 0.57	111 (14)
	4 - 28	78.05 ± 1.30 **	115 (15)	79.61 ± 1.16	127 (16)	80.52 ± 1.24	120 (15)	80.18 ± 0.75	111 (14)

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F1 ALL

Phase	Days	Treatment Groups (mg/L)			
		168		335	
		WT Gain (g)	N	WT Gain (g)	N
PND	4 - 7	5.84 ± 0.16	117 (15)	5.85 ± 0.12	118 (15)
	7 - 10	7.47 ± 0.16	117 (15)	7.14 ± 0.22	118 (15)
	10 - 13	7.90 ± 0.17	117 (15)	7.41 ± 0.13	118 (15)
	13 - 16	6.58 ± 0.19	117 (15)	6.25 ± 0.22 **	118 (15)
	16 - 19	9.19 ± 0.45	117 (15)	8.97 ± 0.36	118 (15)
	19 - 21	8.10 ± 0.15	117 (15)	8.16 ± 0.21	118 (15)
	21 - 25	16.33 ± 0.46	117 (15)	17.03 ± 0.28	118 (15)
	25 - 28	14.30 ± 0.49	117 (15)	13.55 ± 0.41 **	118 (15)
	4 - 28	75.72 ± 1.11	117 (15)	74.37 ± 0.87	118 (15)

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LEGEND

N = the number of pups (number of litters)

PND - Postnatal Day, pups pre-weaning

PND4 weights are precull if litters are culled on postnatal day 4.

Data are displayed as the means and standard errors of the litter means.

Pup weights are adjusted for covariate litter size for all postnatal days. Total live on PND 1 for day 1 to cull day, and number of live pups after culling for later weight days.

Statistical analysis was performed using mixed effects models with litter as a random effect, and a Dunnett-Hsu adjustment for multiple pairwise comparisons.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

**** END OF REPORT ****